

. . . . .

FIG. 1

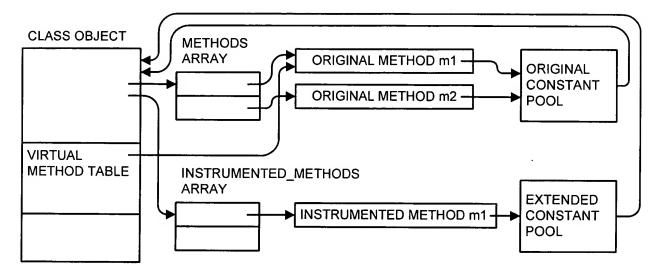


FIG. 2

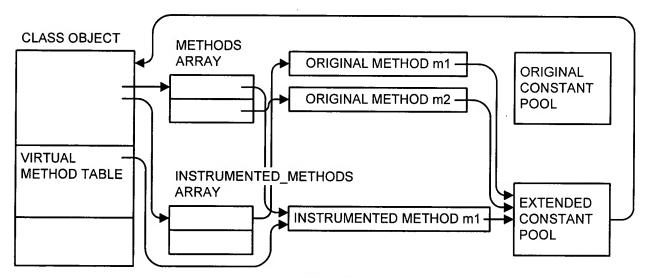
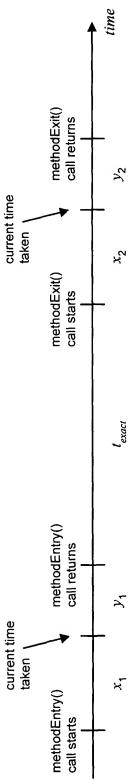
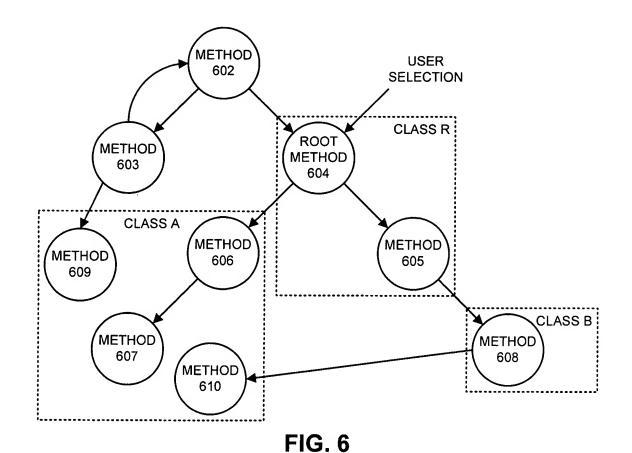


FIG. 3

```
// Push the simulated stack pointer for this thread
// Set the simulated stack method invocation
                                                                                                                                                                                                                                                                                                                                                                                                                          // Entered root method from outiside this call graph
                                                                                                            // Avoid recursive instrumentation invocation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       // ... Perform other thread creation-related operations. Set the stack pointer.
// ... Obtain the timestamp and record the "method entry" event
ti.inProfilerRuntimeMethod = false;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            current time
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if (ti == null) { // This thread never entered this call graph before
ti = ThreadInfo.newThreadInfo();
                                   // Get record for current thread
                                                                                                                                                                                                                                                                                                       \ensuremath{//} ... Obtain current time and record the "method entry" event
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ... Record the new profiled thread creation event
methodId) {
                                                                                                               if (ti.inProfilerRuntimeMethod) return;
                                                                                                                                                                                                                                                                                                                                                                                                                          else if (methodid == rootMethodid) {
                                                                                                                                                                                                                                                                                                                                                                                      ti.inProfilingRuntimeMethod = false;
                                                                                                                                                                                                                                 ti.stack[ti.stackDepth] = methodId;
                                                                                                                                                     ti.inProfilerRuntimeMethod = true;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ti.inProfilerRuntimeMethod = true;
  public static void methodEntry(short
                                ThreadInfo ti = getThreadInfo();
if (ti != null && ti.inCallGraph)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ti.inCallGraph = true;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            current time
                                                                                                                                                                                        ti.stackDepth++;
```





CLASS MIRROR 700

CLASS NAME 702 LOADED FLAG 704

CLASS X

METHOD TABLE 706

m1()

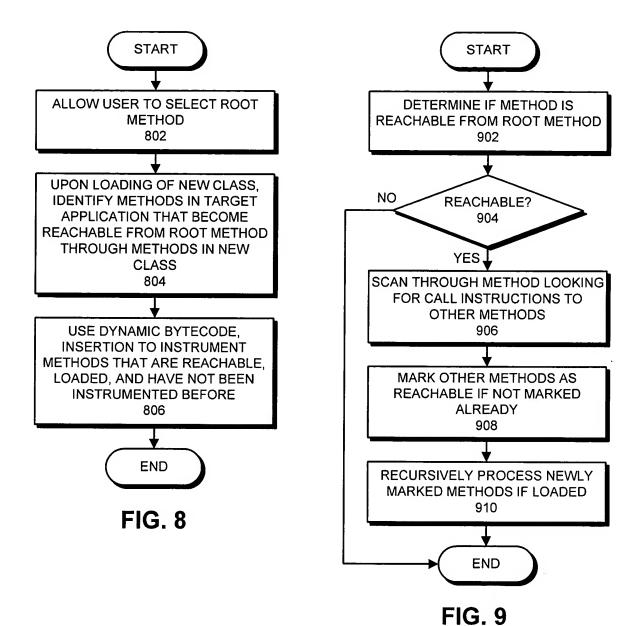
m2()

m3()

REACHABLE FLAG 712

NAME
708

FIG. 7



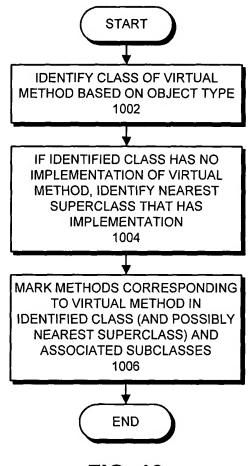


FIG. 10